

Editorial Board

CARDIOVASCULAR MEDICINE

ADULTS

Jonathan Abrams
Robert J. Adolph
Joseph S. Alpert
Jeffrey Anderson
William F. Armstrong
Thomas M. Bashore
George A. Beller
Robert O. Bonow
Eugene Braunwald
B. Greg Brown
Alfred E. Buxton
Michael E. Cain
Richard O. Cannon, III
Agustín Castellanos
Bernard R. Chaitman
John S. Child
Peter F. Cohn
C. Richard Conti
Michael H. Crawford
Robert F. DeBusk
Pablo Denes
George A. Diamond
John P. DiMarco
Pamela S. Douglas
Myrvyn H. Ellestad
Stephen E. Epstein
Harvey Feigenbaum
Robert L. Feldman
Frank A. Finnerty, Jr.
Brian G. Firth
Gerald Fletcher
Joseph A. Franciosa
Edward D. Freis
Valentin Fuster
William H. Gaasch
William Ganz
Julius M. Gardin
Bernard Gersh
D. Luke Glancy
Robert E. Goldstein
Antonio M. Gotto, Jr.
Donald C. Harrison
W. Proctor Harvey
Richard H. Helfant
Phillip D. Henry
Frederick A. Heupler, Jr.
L. David Hillis
Jay Hollman
Leonard N. Horowitz
J. Willis Hurst
Abdulmassih S. Iskandrian
Jeffrey M. Isner
Norman M. Kaplan
Joel S. Karlner
John A. Kastor
Harold L. Kennedy
Kenneth M. Kent
Spencer B. King, III
Robert A. Kloner
Morris N. Kotler
Arthur J. Labovitz
Carl V. Leler
Herbert J. Levine
Joseph Lindsay, Jr.
G.B. John Mancini
Francis E. Marchlinski
Frank I. Marcus
Dean T. Mason
Jawahar Mehta
Richard S. Meltzer
Michael Mock
Fred Morady

Joel Morganroth
Arthur J. Moss
Robert J. Myerburg
Navin C. Nanda
Robert A. O'Rourke
Alan S. Pearlman
Carl J. Pepine
Joseph K. Perloff
Bertram Pitt
Philip J. Podrid
Richard L. Popp
Charles E. Rackley
Nathaniel Reichek
Robert Roberts
Allan M. Ross
John Ross, Jr.
Melvin M. Scheinman
Nelson B. Schiller
Ralph Shabetai
Pravin M. Shah
Florence H. Sheehan
Richard S. Shulman
Bramah N. Singh
John C. Somborg
David H. Spodick
Andrew G. Wallace
Richard A. Walsh
James T. Willerson
John R. Wilson
Barry L. Zaret
Douglas P. Zipes

INFANTS AND CHILDREN

Bruce S. Alpert
Lionel M. Bargerion
D. Woodrow Benson, Jr.
Arthur Garson, Jr.
Warren G. Guntheroth
Howard P. Gutgesell
James E. Lock
Barry J. Maron
Lowell W. Perry
Amnon Rosenthal
David J. Sahn
Stephen Sanders
Norman H. Silverman
L.H.S. Van Mierop
Roberta G. Williams
Grace S. Wolff
J.R. Zuberbuhler

CARDIOVASCULAR SURGERY

Harvey W. Bender, Jr.
Lawrence I. Bonchek
Aldo R. Castaneda
Lawrence H. Cohn
James L. Cox
Charles R. Hatcher, Jr.
Robert H. Jones
Robert B. Karp
Floyd D. Loop
H. Newland Oldham, Jr.
Albert D. Pacifico
Bruce A. Reitz
Robert B. Wallace
Andrew S. Wechsler

RELATED SPECIALISTS

L. Maximilian Buja
Victor J. Ferrans
H. William Strauss
Richard Van Praagh

**VOLUME 61:
DECEMBER 14, 1987
THROUGH
JUNE 15, 1988**

THE AMERICAN JOURNAL OF CARDIOLOGY

EDITOR IN CHIEF
William C. Roberts, MD

ASSOCIATE EDITORS
William P. Baker, MD, PhD
Paul A. Tibbits, MD

MANAGING EDITOR
Margaret E. Phelan

ASSISTANT MANAGING EDITOR
Dimitry Popov

PRODUCTION EDITOR
William W. Laste

EDITORIAL ASSISTANT
Audrey McLean

ASSISTANT TO THE EDITOR
Jennifer L. Granger

SYMPOSIUM STAFF
MANAGING EDITOR
Judith Wagner

PRODUCTION EDITOR
Mia Mischuk

PROOF EDITOR
Mary Crowell

PUBLISHING DIRECTOR
Martin W. Morgan

DECEMBER 14, 1987
VOLUME 60 • NUMBER 17

**A SYMPOSIUM:
HYPERTENSION—
THE HEART
AND KIDNEY**

DECEMBER 28, 1987
VOLUME 60 • NUMBER 18

**A SYMPOSIUM:
BEHAVIORAL DISORDERS
IN HEART DISEASE**

JANUARY 1, 1988
VOLUME 61 • NUMBER 1

CORONARY ARTERY DISEASE

1
Relation Between Infarct Size and Left Ventricular Performance Assessed in Patients with First Acute Myocardial Infarction Randomized to Intracoronary Thrombolytic Therapy or to Conventional Treatment.

Arnoud van der Laarse, Peter L.M. Kerkhof, Frank Vermeer, Patrick W. Serruys, Wim T. Hermens, Freek W.A. Verheugt, Frits W. Bär, X. Hanno Krauss, Ernst E. van der Wall, and Maarten L. Simoons

8
Mechanism of Death and Prevalence of Myocardial Ischemic Symptoms in the Terminal Event After Acute Myocardial Infarction.
Frank I. Marcus, Leonard A. Cobb, Jesse E. Edwards, Lewis Kuller, Arthur J. Moss, J. Thomas Bigger, Jr., Joseph L. Fleiss, Linda Rolnitzky, Ruth Serokman, and the Multicenter Post Infarction Research Group

16
Usefulness of Early Positive Technetium-99m Stannous Pyrophosphate Scan in Predicting Reperfusion After Thrombolytic Therapy for Acute Myocardial Infarction.
Dante E. Manyari, Christopher R. Thompson, Henry J. Duff, Merrill L. Knudtson, Reinhard Kloiber, Eldon R. Smith, and Israel Belenkie

21
Effect of Intravenous Isosorbide Dinitrate Versus Nitroglycerin on Elevated Pulmonary Arterial Wedge Pressure During Acute Myocardial Infarction.
Guillermo B. Cintron, Stephen P. Glasser, Barbara Arce Weston, Esteban Linares, C. Richard Conti, and Participating Investigators

26
Comparison of High- and Low-Intensity Exercise Training Early After Acute Myocardial Infarction.
James A. Blumenthal, W. Jack Rejeski, Margaret Walsh-Riddle, Charles F. Emery, Henry Miller, Steven Roark, Paul M. Ribisl, Pamela B. Morris, Peter Brubaker and R. Sanders Williams

31
Electrocardiographic Manifestations and In-Hospital Prognosis of Transient Acute Myocardial Ischemia at Rest.
Silva Severi, Paolo Marraccini, Claudio Michelassi, Enrico Orsini, Vincenza Nassisi, and Antonio L'Abbate

38
Lack of Diurnal Variation in Maximal Symptom-Limited Exercise Test Response in Chronic Stable Angina.
Nardev S. Khurmi and Edward B. Raftery

43
Diagnostic Value for Coronary Artery Disease of Chest Pain During Dipyridamole-Thallium Stress Testing.
Justin D. Pearlman and Charles A. Boucher

46
Sustained Antianginal Efficacy of Transdermal Nitroglycerin Patches Using an Overnight 10-Hour Nitrate-Free Interval.
David H. Schaer, Leslie A. Buff, and Richard J. Katz

51
Usefulness of Early Radionuclide Angiography for Identifying Low-Risk Patients for Late Restenosis After Percutaneous Transluminal Coronary Angioplasty.
James H. O'Keefe, Jr., Andre C. Lapeyre III, David R. Holmes, Jr., and Raymond J. Gibbons

55
Normalization of Coronary Flow Reserve by Percutaneous Transluminal Coronary Angioplasty.
Felix Zijlstra, Johan C. Reiber, Yves Juilliere, and Patrick W. Serruys

61

Hemodynamic Effects of Alcohol at Rest and During Upright Exercise in Coronary Artery Disease.

Henning Kelbaek, Lars Heslet, Knud Skagen, Niels Juel Christensen, John Godtfredsen, and Ole Munck, with the technical assistance of Kirsten Büløw

65

Myocardial Metabolic and Hemodynamic Effects of Dichloroacetate in Coronary Artery Disease.

Thomas J. Wargovich, Robert G. MacDonald, James A. Hill, Robert L. Feldman, Peter W. Stacpoole, and Carl J. Pepine

71

Effects of Phentolamine and Atropine on Angina Pectoris Induced by Handgrip Test in Patients with Variant Angina.
Yasuhiro Morikami, Hirofumi Yasue, Ken Okumura, Yutaka Horio, Hiromi Fujii, and Koshi Matsuyama

77

Supersensitivity of Coronary Arteries in Variant Angina to Spasm Induced by Intracoronary Acetylcholine.
Kunihisa Miwa, Masahiro Goto, Jong Dae Lee, Fumio Matsuyama, Hiromasa Shimizu, Toru Kato, and Akira Hara

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

83

Importance of Lead Selection in QT Interval Measurement.
J. Campbell Cowan, Khalid Yusoff, Malcolm Moore, Paul A. Amos, Ann E. Gold, John P. Bourke, Suda Tansuphaswadikul, and Ronald W.F. Campbell

88

Strength-Interval Relation for Ventricular Functional Refractoriness.

L. Bing Liem, Donald M. Mason, Jr., and Charles D. Swerdlow

93

Pharmacodynamics of Intravenous Procainamide as Used During Acute Electropharmacologic Testing.

Fred Morady, William H. Kou, Stephen Schmaltz, Thomas Annesley, Michael de Buitelir, Steven D. Nelson, and Jeffrey A. Kushner

99

Alterations in the Initial Portion of the Signal-Averaged QRS Complex in Acute Myocardial Infarction with Ventricular Tachycardia.

Michael G. Kienzle, Rita A. Falcone, and Michael B. Simson

104

Epicardial Ventricular Pacemaker Electrode Longevity in Children.

Gerald A. Serwer, Jane M. Mericle, and Brenda E. Armstrong

107

The Activitrax Rate Responsive Pacemaker System.

Karel den Dulk, Leon Bouwels, Fred Lindemans, Ian Rankin, Pedro Brugada, and Hein J.J. Wellens

113

Experiences with Atrial Pacing.
Stephen B. Bernstein, Bruce E. Van Natta, and Myrvin H. Ellestad

SYSTEMIC HYPERTENSION

117

Age and Antihypertensive Drugs (Hydrochlorothiazide, Bendroflumethiazide, Nadolol and Captopril).

Edward D. Freis for the Veterans Administration Cooperative Study Group on Antihypertensive Agents

VALVULAR HEART DISEASE

123

Comparison of Outcome of Asymptomatic to Symptomatic Patients Older Than 20 Years of Age with Valvular Aortic Stenosis.

Thomas A. Kelly, Robert M. Rothbart, C. Morgan Cooper, Donald L. Kaiser, Mark L. Smucker, and Robert S. Gibson

131

Reassessment of Echocardiographic Criteria for Diagnosis of Mitral Valve Prolapse.

Janine Krivokapich, John S. Child, Berge J. Dadourian, and Joseph K. Perloff

136

Accuracy of Left Atrial and Pulmonary Artery Wedge Pressure in Pure Mitral Regurgitation in Predicting Left Ventricular End-Diastolic Pressure.

Richard J. Haskell and William J. French

142

Prevalence and Characteristics of the Aortic Ejection Sound in Adults.

Masao Nitta, Dede Ihenacho, and Herbert N. Hultgren

CARDIOMYOPATHY

146

Long-Term Prognostic Significance of Ventricular Arrhythmias in Idiopathic Dilated Cardiomyopathy.

Klaus V. Olshausen, Ulrich Stienen, Franz Schwarz, Wolfgang Kübler, and Jürgen Meyer

CONGENITAL HEART DISEASE

152

Double-Orifice Mitral Valve: A Study of 27 Postmortem Cases with Developmental, Diagnostic and Surgical Considerations.

Antonio Baño-Rodrigo, Stella Van Praagh, Eckardt Trowitzsch, and Richard Van Praagh

161

Correlation of Right Ventricular Volume Using Axial Angulated Ventriculography to Known Right Ventricular Cast Volumes in Infants and Children with Congenital Heart Disease.

Toshihiro Ino, Lee N. Benson, Haverj Mikailian, Robert M. Freedom, and Richard D. Rowe

166

Impact of Two-Dimensional and Doppler Echocardiography on Care of Children Aged Two Years and Younger.

Ernerio T. Alboliras, James B. Seward, Donald J. Hagler, Gordon K. Danielson, Francisco J. Puga, and A. Jamil Tajik

170

Echocardiographic Abnormalities in the Mucopolysaccharide Storage Diseases.

Donald M. Gross, Julian C. Williams, Christine Caprioli, Barbara Dominguez, and R. Rodney Howell

177

Asymptomatic Form of Left Pulmonary Artery Sling.

Claude DuPuis, Guy Vaksman, Claude Pernot, Raymond Gerard, José Martinez, and Harko Van Egmond

EDITORIALS

182

Coarctation of the Aorta, Bicuspid Aortic Valve and Abnormal Ascending Aortic Wall.

Joseph Lindsay, Jr.

BRIEF REPORTS

185

Atherosclerotic Aneurysms of Aortocoronary Vein Grafts.

Bruce T. Liang, Elliott M. Antman, Richard Taus, John J. Collins, Jr., and Frederick J. Schoen

189

Prolonged Infusion of Urokinase for Recanalization of Chronically Occluded Aortocoronary Bypass Grafts.

Joseph Hartmann, Louis McKeever, Julio Teran, Vincent Bufalino, Joseph Marek, Alan Brown, Mark Goodwin, Firouz Amirparviz, and Amir Motarjeme

192

Polymorphic Ventricular Tachycardia as the Presenting Manifestation of Bjork-Shiley Mitral Prosthesis Strut Fracture.

Richard R. Edwards and Joseph A. Robbins

193

Congenital Cardiomyopathy and Cataracts with Lactic Acidosis.

Julius Valsö, Throstr Laxdal, Asgeir Jonsson, Kristleifur Kristjansson, and Hrodmar Helgason

195

Reconstruction with a Dacron® Tube Graft of an Anomalous Left Main Coronary Artery Arising from the Pulmonary Trunk with 19-Year Asymptomatic Period Thereafter.

Robert D. Leachman, Oscar Zamalloa, Fernando Tapia, Grady L. Hallman, and Denton A. Cooley

196

Double Aortic Arch with Bilateral Coarctations.

Stuart J. Singer, Kenneth E. Fellows, and Richard A. Jonas

197

Relation of Results of Exercise Stress Tests in Young Women to Phases of the Menstrual Cycle.

Pamela I. Clark, Stephen P. Glasser, Gary H. Lyman, Janet Krug-Fite and Allen Root

199

THE AJC 25 YEARS AGO.

William C. Roberts

200

LETTERS.

INSTRUCTIONS TO AUTHORS
on page 122

JANUARY 15, 1988

VOLUME 61 • NUMBER 2

**A SYMPOSIUM:
ARRHYTHMIA THERAPY—
CONTROVERSIES,
DIRECTIONS AND
CHALLENGES**

JANUARY 29, 1988

VOLUME 61 • NUMBER 3

**A SYMPOSIUM:
MEDICAL
MANAGEMENT OF SILENT
ISCHEMIA AND
MYOCARDIAL INFARCTION**

FEBRUARY 1, 1988

VOLUME 61 • NUMBER 4

CORONARY ARTERY DISEASE

201

Correlation of Coronary Arteriography After Acute Myocardial Infarction with PredischARGE Limited Exercise Test Response.

Lawrence S.C. Griffith, Ed Varnauskas, Jan Wallin, Thorvald Bjurö, and Jan Ejdebäck

208

Components of Heart Rate Variability Measured Before Discharge in Patients With Myocardial Infarction.

J. Thomas Bigger, Jr., Robert E. Kleiger, Joseph L. Fleiss, Linda M. Roinitzky, Richard C. Steinman, J. Philip Miller, and the Multicenter Post-Infarction Research Group

216

Short-Term Risk Stratification at Admission Based on Simple Clinical Data in Acute Myocardial Infarction.

Christophe Dubois, Luc A. Pierard, Jean-Pierre Smeets, Jean-Claude Demoulin, Jean Boland, Henri E. Kulbertus, and Adelin Albert

220

Significance of Doppler-Detected Mitral Regurgitation in Acute Myocardial Infarction.

Benico Barzilai, Carl Gessler Jr, Julio E. Pérez, Colleen Schaab, and Allan S. Jaffe

224

Relation of Left Ventricular Dilation During Acute Myocardial Infarction to Systolic Performance, Diastolic Dysfunction, Infarct Size and Location.

A. Allen Seals, Craig M. Pratt, John J. Mahmarian, Sameh Tadros, Neal Kleiman, Robert Roberts, and Mario S. Verani

231

Usefulness of the Accelerated Idioventricular Rhythm as a Marker for Myocardial Necrosis and Reperfusion During Thrombolytic Therapy in Acute Myocardial Infarction.

Anton P.M. Gorgels, Marc A. Vos, Ingrid S. Letsch, Erik A. Verschuuren, Frits W.H.M. Bär, Johan H.A. Janssen, and Hein J.J. Wellens

236

Evolution of the Responses to Exercise in Left Ventricular Aneurysms After Anterior Wall Acute Myocardial Infarction.

Liang Hsu, Ahmed Rostami, Nadarajah Sreeharan, Koon Kang Teo, and Tissa Kappagoda

240

Percutaneous Transluminal Coronary Angioplasty for Angina Pectoris After a Non-Q-Wave Acute Myocardial Infarction.

Harry Suryapranata, Kevin Beatt, Pim J. de Feyter, Johan Verroste, Marcel van den Brand, Felix Zijlstra, and Patrick W. Serruys

244

Angiographic Demonstration of a Common Link Between Unstable Angina Pectoris and Non-Q Wave Acute Myocardial Infarction.

John A. Ambrose, Craig E. Hjerdahl-Monsen, Susan Borrico, Richard Gorlin, and Valentin Fuster

248

Asymptomatic Myocardial Ischemia as a Predictor of Cardiac Events After Coronary Artery Bypass Grafting for Stable Angina Pectoris.

Kenneth Egstrup

253

Coronary Blood Flow Velocity During Percutaneous Transluminal Coronary Angioplasty as a Guide for Assessment of the Functional Result.

Patrick W. Serruys, Yves Juillière, Felix Zijlstra, Kevin J. Beatt, Pim J. De Feyter, Harry Suryapranata, Marcel Van Den Brand, and Jos Roelandt

260

Increased Frequency Of Restenosis In Patients Continuing To Smoke Cigarettes After Percutaneous Transluminal Coronary Angioplasty.

Katherine M. Galan, Ubeydullah Deligonul, Morton J. Kern, Bernard R. Chaitman, and Michael Vandormael

264

Comparison of Dipyridamole-Handgrip Test and Bicycle Exercise Test for Thallium Tomographic Imaging.

Heikki V Huikuri, Ulla R. Korhonen, K.E. Juhani Airaksinen, Markku J. Ikäheimo, Juhani Heikkilä, and Juha T. Takkunen

269

Use of Exercise Thallium-201 for Risk Stratification of Elderly Patients with Coronary Artery Disease.

Abdulmassih S. Iskandrian, Jaekyeong Heo, Darla Decoskey, Alan Askenase and Bernard L. Segal

273

Body Surface Potential Maps with Low-Level Exercise in Isolated Left Anterior Descending Coronary Artery Disease.

Terrence J. Montague, David E. Johnstone, C. Anne Spencer, Robert M. Miller, B. Ross MacKenzie, Martin J. Gardner, and B. Milan Horacek

283

Effect of Coronary Artery Bypass Grafting on Left Ventricular Diastolic Function.

William E. Lawson, Frank Seifer, Constantine Anagnostopoulos, Dona J. Hills, Rita D. Swinford, and Peter F. Cohn

288

An Ischemic Index from the Electrocardiogram to Select Patients with Low Left Ventricular Ejection Fraction for Coronary Artery Bypass Grafting.

Tomoaki Hinohara, Nancy B. Wagner, Frederick R. Cobb, R. Edward Coleman, James E. Pope, W. Kenneth Haisty, and Galen S. Wagner

292

Coronary Vasodilatory Action After a Single Dose of Nicorandil.

Haryanto Suryapranata, Patrick W. Serruys, Pim J. De Feyter, Pieter D. Verdouw, and Paul G. Hugenholtz

298

Methergin® Testing with Angiographically Normal Coronary Arteries.

Michel Bory, Patrick Joly, Jean-Louis Bonnet, Pierre Djiane, and Andre Serradimigni

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

303

Limited Value of Programmed Electrical Stimulation from Multiple Right Ventricular Pacing Sites in Clinically Sustained Ventricular Fibrillation or Ventricular Tachycardia Associated with Coronary Artery Disease.

Peter J. Kudenchuk, Jack Kron, Charles Walance, and John H. McAnulty

309

Developments, Complications and Limitations of Catheter-Mediated Electrical Ablation of Posterior Accessory Atrioventricular Pathways.
Gust H. Bardy, Tom D. Ivey, Fernando Coltorti, Robert B. Stewart, George Johnson, and H. Leon Greene

317

M-Mode Echocardiograms for Determination of Optimal Left Atrial Timing in Patients with Dual Chamber Pacemakers.

Marc Wish, John S. Gottdiener, Andrew I. Cohen, and Ross D. Fletcher

323

Clinical and Hemodynamic Comparison of VVI Versus DDD Pacing in Patients with DDD Pacemakers.

Donald E. Rediker, Kim A. Eagle, Shunichi Homma, Linda D. Gillam, and J. Warren Harthorne

330

Comparative Quantitative Electrophysiologic Effects of Adenosine Triphosphate on the Sinus Node and Atrioventricular Node.

Arjun D. Sharma and George J. Klein

336

Usefulness of Adenosine for Arrhythmias in Infants and Children.

Edward D. Overholt, Karen S. Rheuban, Howard P. Gutgesell, Bruce B. Lerman, and John P. DiMarco

341

Electrophysiologic Effects of Propranolol in Intraventricular Conduction Disturbance.

Gilbert Kirkorian, Paul Touboul, and Georges Atallah

346

Clinical Significance of Exercise-Induced Bundle Branch Block.

Mark A. Williams, Dennis J. Esterbrooks, Chandra K. Nair, Marge M. Sailors, and Michael H. Sketch

349

Clinical Predictors of Arrhythmia Worsening by Antiarrhythmic Drugs.

William Slater, Steven Lampert, Philip J. Podrid, and Bernard Lown

354

Linking by Collision Initiated in the Absence of Preexisting Reentrant Tachycardia.

Michael H. Lehmann and Russell T. Steinman

361

Assessment by Autonomic Blockade of Age-Related Changes of the Sinus Node Function and Autonomic Regulation in Sick Sinus Syndrome.

Keisuke Kuga, Iwao Yamaguchi, Yasuro Sugishita, and Iwao Ito

CONGESTIVE HEART FAILURE

367

Serial Evaluation of Left Ventricular Function in Congestive Heart Failure by Measurement of Peak Aortic Blood Acceleration.

Hani N. Sabbah, Mihai Gheorghiade, Stephen T. Smith, Diane M. Frank, and Paul D. Stein

371

A Controlled Trial of Digoxin in Congestive Heart Failure.

Gordon H. Guyatt, Michael J.J. Sullivan, Ernest L. Fallon, Hirawan Tihal, Elizabeth Rideout, Susan Halcrow, Marie Townsend, Sharon Nogradi, and D. Wayne Taylor

VALVULAR HEART DISEASE

376

Pivotal Role of Aortic Valve Area Calculation by the Continuity Equation for Doppler Assessment of Aortic Stenosis in Patients with Combined Aortic Stenosis and Regurgitation.

Paul A. Grayburn, Mikel D. Smith, Michael R. Harrison, John C. Gurley, and Anthony N. DeMaria

382

A New and Simple Method to Measure Maximal Aortic Valve Pressure Gradients by Doppler Echocardiography.

Ian M. Penn and Jean G. Dumesnil

386

Tricuspid and Mitral Regurgitation Detected by Color Flow Doppler in the Acute Phase of Kawasaki Disease.

Atsuko Suzuki, Tetsuro Kamiya, Keiji Tsuchiya, Isamu Sato, Yoshio Arakaki, Toru Kohata, and Yasuo Ono

MISCELLANEOUS TOPICS

391

Frequency of Cardiac Contusion in Nonpenetrating Chest Injury.
Kenneth F. Hossack, Christopher A. Moreno, Charles W. Vanway, and Duncan C. Burdick

395

Left Ventricular Filling in Sick Cell Anemia.

Ian C. Balfour, Wesley Covitz, Frederick W. Arensman, Casimir Eubig, Mariquita Garrido, and Carol Jones, with the technical assistance of Carol Boe, Lynn Reyes, and Bonnie Hadden

400

Effects of Propranolol on the Left Ventricular Response to the Valsalva Maneuver in Normal Subjects.

Peter K. Hoshino, Alvin S. Blaustein, and William H. Gaasch

405

Prevalence and Significance of Gallium-67 Uptake in the Heart After Open Heart Surgery.
Heikki V. Huikuri, Markku J. Ikäheimo, K.E. Juhani Airaksinen, Markku M.K. Linnaluoto, Juhani Heikkilä, and Juha T. Takkunen

410

FROM THE EDITOR.

INSTRUCTIONS TO AUTHORS

on page 230,409

FEBRUARY 10, 1988

VOLUME 61 • NUMBER 5

**A SYMPOSIUM:
HYPERTENSION INTO
THE NINETIES**

FEBRUARY 15, 1988

VOLUME 61 • NUMBER 6

CARDIOMYOPATHY

413

Effects of Verapamil on Left Ventricular Diastolic Filling in Children with Hypertrophic Cardiomyopathy.

Elizabeth M. Shaffer, Albert P. Rocchini, Robert L. Spicer, Jack Juni, Rebecca Snider, Dennis Crowley, and Amnon Rosenthal

418

Timing of Cardiac Transplantation in Idiopathic Dilated Cardiomyopathy.

Anne M. Keogh, Judith Freund, David W. Baron, and John B. Hickie

CONGENITAL HEART DISEASE

423

Cardiac Malformations in Relatives of Children with Truncus Arteriosus or Interruption of the Aortic Arch.

Mary Ella Mascia Pierpont, Jennifer White Gobel, James H. Moller, and Jesse E. Edwards

428

Inducible Atrial Flutter After the Mustard Repair of Complete Transposition of the Great Arteries.

Victoria L. Vetter, Carol S. Tanner, and Leonard N. Horowitz

436

Physiopathology of Transient Ventricular Occlusion During Balloon Valvuloplasty for Pulmonic or Aortic Stenosis.

José Suárez de Lezo, Manuel Pan, Miguel Romero, Manuel Sancho, and José Luis Carrasco, with the technical assistance of Ana Rejano, Carlos Martinez, and Asumpta Costa

441

Correlation of Left Ventricular Angiographic Casts and Biplane Left Ventricular Volumetry in Infants and Children.

Toshihiro Ino, Lee N. Benson, Haverj Mikailian, Robert M. Freedom, and Richard D. Rowe

METHODS

446

Comparison of Pulsed Doppler Echocardiography and Radionuclide Angiography in the Assessment of Left Ventricular Filling.

Anthony C. Pearson, Henry Goodgold, and Arthur J. Labovitz, with the technical assistance of John Ratcliff

BRIEF REPORTS

455

Randomized Trial of Prostacyclin Infusion in Acute Myocardial Infarction.

Paul W. Armstrong, Lorrie M. Langevin, and Donald G. Watts

457

Percutaneous Transluminal Coronary Angioplasty in Octogenarians.

Morton J. Kern, Ubeydullah Deligonul, Kathy Galan, Robert Zelman, Gregory Gabliani, Stephen T. Bell, Joseph Bodet, Keith Naunheim, and Michel Vandormael

459

Left Main Coronary Artery Stenosis After Percutaneous Transluminal Coronary Angioplasty.

Victor S. Wayne, Richard W. Harper, and Aubrey Pitt

461

Silent Myocardial Ischemia as a Predisposing Factor for Ventricular Fibrillation.

Stefan H. Hohnloser, Wolfgang Kasper, Manfred Zehender, Annette Geibel, Thomas Meinertz, and Hanjörg Just

463

Termination of Sustained Ventricular Tachycardia by Transesophageal Atrial Pacing.
Charles R. Kerr, Jocelyn Cooper, David C. Chung, and John A. Yeung Lai-Wah

465

Pacemaker-Mediated Endless Loop Tachycardia at Rates Below the Upper Rate Limit.

Kalman Ausubel, Mark D. Gabry, Peter T. Klementowicz, and Seymour Furman

467

Follow-Up of the Family with Congenital Absence of Sinus Rhythm.

Borys Surawicz and Robert J. Hariman

470

Antiarrhythmic Effect of a 5-Hydroxytryptamine M-Receptor Antagonist, ICS 205-930.

Joel Morganroth and Colleen McGinn

471

Endocardial Catheter Fulguration for Treatment of Atrial Flutter.

Michel Chauvin and Claude Brechenmacher

473

Propafenone for Paroxysmal Atrial Fibrillation.

Stephen C. Hammill, Douglas L. Wood, Bernard J. Gersh, Michael J. Osborn, and David R. Holmes, Jr.

475

Overestimation by Doppler Echocardiography of Pressure Gradients Across Starr-Edwards Prosthetic Valves in the Aortic Position.

Robert M. Rothbart, Mark L. Smucker, and Robert S. Gibson

477

Rupture of an Aneurysmal Pulmonary Trunk 40 Years After Blalock-Taussig Anastomosis.

Bryan C. Donohue, Scott W. Binder, Joseph K. Perloff, and John S. Child

479

Complex of Discrete Subaortic Stenosis, Single Coronary Artery Arising from a Small Left Aortic Sinus, a Rudimentary Low-Seated Left Aortic Cusp and a Congenital Aortic Regurgitation.

Simcha Milo, Nathan Roguin, Edward G. Abinader, Abraham Shem-Tov, and Vladimir Birjiniuk

480

Isolated Congenital Right Ventricular Diverticulum with Ventricular Premature Complexes.

Kenji Hamaoka and Tadashi Sawada

481

Influence of Sublingual Nitroglycerin on Diastolic Transmitral Flow Velocities in Normal Subjects.

Byron F. Vandenberg, John A. Rumberger, and Richard E. Kerber

482

Diurnal Variations of QT Interval After Cardiac Transplantation.

Dimitrios Alexopoulos, Andrzej Rynkiewicz, Salim Yusuf, Jim A. Johnston, Peter Sleight, and Magdi H. Yacoub

486

Successful Percutaneous Transluminal Angioplasty of an Obstructed Abdominal Aorta Secondary to a Chronic Dissection.

Thomas M. Shimshak, Lee V. Giorgi, and Geoffrey Q. Hartzler

488

Detection of Thromboembolus of the Right Pulmonary Artery by Transesophageal Two-Dimensional Echocardiography.

Uwe Nixdorff, Raimund Erbel, Michael Drexler, and Jürgen Meyer

489

Importance of Adjusting Left Ventricular Diastolic Peak Filling Rate for Heart Rate.

Ragnar Danielsen, Jan Erik Nordrehaug, and Harald Vik-Mo

492

Comparison of Five Methods for the Measurement of Left Ventricular Ejection Time.

Catherine C. Avgeropoulou and Peter S. Rahko

494

A XII Century Description of Congestive Heart Failure.

Jon E. Lutz

495

THE AJC 25 YEARS AGO.

William C. Roberts

498

LETTERS.

INSTRUCTIONS TO AUTHORS
on page 497

FEBRUARY 24, 1988

VOLUME 61 • NUMBER 7

**A SYMPOSIUM:
RILMENIDINE—A
NOVEL ALPHA₂ AGONIST
ANTIHYPERTENSIVE AGENT**

MARCH 1, 1988

VOLUME 61 • NUMBER 8

CORONARY ARTERY DISEASE

501

Effects of Encainide, Flecainide, Imipramine and Moricizine on Ventricular Arrhythmias During the Year After Acute Myocardial Infarction: The CAPS.

The Cardiac Arrhythmia Pilot Study (CAPS) Investigators

510

Adoption of Thrombolytic Therapy in the Management of Acute Myocardial Infarction.

Mark A. Hlatky, Harry Cotugno, Christopher O'Connor, Daniel B. Mark, David B. Pryor, and Robert M. Califf

515

Trends in Physician Management of Uncomplicated Acute Myocardial Infarction, 1970 to 1987.

Mark A. Hlatky, Harry E. Cotugno, Daniel B. Mark, Christopher O'Connor, Robert M. Califf, and David B. Pryor

519

Influence of Long-Term Metoprolol Treatment on Early and Late Exercise Test Performance After Acute Myocardial Infarction.

Gunnar Olsson, Nina Rehnqvist, Ulla Freyschuss, and Staffan Zetterqvist

524

Improved Survival up to Four Years After Early Coronary Thrombolysis.

Detlef G. Mathey, Joachim Schofer, Florence H. Sheehan, Hans-Joachim Krebber, Marlene Justen, Georg Rodewald, H.T. Dodge, and Walter Bleifeld

530

Factors of Importance for Prognosis in Men with Angina Pectoris Derived from a Random Population Sample. The Multifactor Primary Prevention Trial, Gothenburg, Sweden.

Marianne Hagman, Lars Wilhelmsen, Kjell Pennert, and Hans Wedel

536

Assessment of Mitral Flow Velocity with Exercise by an Index of Stress-Induced Left Ventricular Ischemia in Coronary Artery Disease.

George D. Mitchell, Richard C. Brunken, Markus Schwaiger, Bryan C. Donohue, Janine Krivokapich, and John S. Child

541

Dynamics of Early and Late Left Ventricular Filling Determined by Doppler Two-Dimensional Echocardiography During Percutaneous Transluminal Coronary Angioplasty.

Leigh K. Bowman, Michael W. Cleman, Henry S. Cabin, Barry L. Zaret, and C. Carl Jaffe

546

Early and Late Assessment of Stenosis Geometry After Coronary Arterial Stenting.

Jacques Puel, Yves Juilliere, Michel E. Bertrand, Anthony F. Rickards, Ulrich Sigwart, and Patrick W. Serruys

554

Intraaortic Balloon Pumping for Prolonged Circulatory Support.

Paul S. Freed, Tarik Wasfie, Barina Zado, and Adrian Kantrowitz

558

Risks Associated With Intraaortic Balloon Pumping in Patients With and Without Diabetes Mellitus.

Tarik Wasfie, Paul S. Freed, Melvyn Rubenfire, Waldemar Wajszczuk, Paula Reimann, Witold Brozyna, M. Anthony Schork, Jay Kozlowski, and Adrian Kantrowitz

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

563

QRS Morphology-Dependent Pharmacodynamics in Multiform Ventricular Ectopic Activity.

Kenneth M. Kessler, Daneil McAuliffe, Patricia Kozlovskis, Richard G. Trohman, Liaqat Zaman, Agustin Castellanos, Rafael Sequeira, and Robert J. Myerburg

570

Tocainide Plus Quinidine for Treatment of Ventricular Arrhythmias.

Jean T. Bartley, Katherine A. Thompson, Debra S. Echt, Raymond L. Woosley, and Dan M. Roden

574

Termination of Sustained Ventricular Tachycardia by External Noninvasive Pacing.

Jerry C. Luck, Blair P. Grubb, Stephen E. Artman, Robert T. Steckbeck, and Michael L. Markel

578

Prognostic Significance of Arrhythmia Inducibility or Noninducibility at Initial Electrophysiologic Study in Survivors of Cardiac Arrest.

Roger A. Freedman, Charles D. Swerdlow, Vivian Soderholm-Difatte, and Jay W. Mason

VALVULAR HEART DISEASE

583

Dual Balloon Technique for Valvuloplasty of Aortic Stenosis in Adults.

Jeffrey M. Isner, Deeb N. Salem, Mark R. Desnoyers, Constance D. Fields, Kimberly R. Halaburka, GERALYN A. Slovenkal, Thomas J. Hougen, Eric J. Eichhorn, and Kenneth Rosenfield

590

Effect of Mitral Regurgitation on Diastolic Filling with Left Ventricular Hypertrophy.

M. Abubakr Shaikh, and Steven J. Lavine

CONGENITAL HEART DISEASE

595

Noninvasive Assessment of Hemodynamic Responses to Exercise in Pulmonary Regurgitation After Operations to Correct Pulmonary Outflow Obstruction.

Gerald R. Marx, Richard W. Hicks, Hugh D. Allen, and Stanley J. Goldberg

602

Results of the Modified Fontan Operation in Adults.

Richard A. Humes, Douglas D. Mair, Co-Burn J. Porter, Francisco J. Puga, Hartzell V. Schaff, and Gordon K. Danielson

605

Effect of Iron Deficiency on Tissue Oxygen Delivery in Cyanotic Congenital Heart Disease.

Samuel S. Gidding and James A. Stockman III

608

Surgical Risk Factors in Total Anomalous Pulmonary Venous Connection.

Christopher R. Lincoln, Michael L. Rigby, Corrado Mercanti, Mohammad Al-Fagih, Michael C. Joseph, Graham A. Miller, and Elliott A. Shinebourne

612

Accuracy of Electrical Impedance Cardiography for Measuring Cardiac Output in Children with Congenital Heart Defects.

Daniel S. Miles, Robert W. Gotshall, Jane C. Golden, Dwight T. Tuuri, Robert H. Beekman III, and Terrence Dillon

MISCELLANEOUS TOPICS

617

Effect of Increasing Heart Rate on Left Ventricular Performance in Patients with Normal Cardiac Function.

Saul Schaefer, Anne L. Taylor, Howard R. Lee, Elaine H. Niggemann, Benjamin D. Levine, Jeffrey J. Popma, Jere H. Mitchell, and L. David Hillis

621

Intrinsic Left Ventricular Contractility in Normal Subjects.

Marvin W. Kronenberg, Jack P. Uetrecht, William D. Dupont, Michael H. Davis, Brian K. Phelan, and Gottlieb C. Friesinger

628

Strategies for Increasing Early Adherence to and Long-Term Maintenance of Home-Based Exercise Training in Healthy Middle-Aged Men and Women.

Abby C. King, C. Barr Taylor, William L. Haskell, and Robert F. DeBusk

EDITORIALS

633

Optimum Heart Rate of Large Failing Hearts.

Herbert J. Levine

637

Usefulness of Aspirin for Coronary Artery Disease.

Valentin Fuster, Marc Cohen, and James H. Chesebro

641

Coronary Artery Disease in Women.

Elaine D. Eaker, Barbara Packard, Nanette K. Wenger, Thomas B. Clarkson, and H.A. Tyroler

BRIEF REPORTS

645

Primary Coronary Artery Dissection Observed at Coronary Angiography.

Hideo Nishikawa, Shigemoto Nakanishi, Shinichiro Nishiyama, Shigeyuki Nishimura, Akira Seki, and Hiroshi Yamaguchi

648

Effect of Right Coronary Artery Occlusion During Percutaneous Transluminal Coronary Angioplasty on Right Ventricular Performance.

Manfred Mauser, Karl R. Karsch, and Ludger Seipel

650

Recovery of Severe Ischemic Ventricular Dysfunction After Coronary Artery Bypass Grafting.

David A. Brill, Lawrence I. Deckelbaum, Michael S. Remetz, Robert Soufer, John A. Eleftheriades, and Barry L. Zaret

652

Allorhythmic Preexcitation due to Anterograde Concealed Kent Bundle Conduction.

Gaetano Satullo, Giuseppe Oreto, Francesco Luzzo, Giuseppe Paleologo, and Leo Schamroth

654

Cardiac Strangulation: Two-Dimensional Echo Recognition of a Rare Complication of Epicardial Pacemaker Therapy.

Joel I. Brenner, Sharon Gaines, Joyce Cordier, Bruce I. Reiner, Phillip J. Haney, and Steven R. Gundry

656

Incessant Pacemaker Vario® Operation

Thomas M. Cunningham

657

Modulation of Atrioventricular Nodal Conduction Using Radiofrequency Current.

Klaus-Peter Kunze, Michael Schlüter, Manfred Geiger, and Karl-Heinz Kuck

659

Sudden Death and Cardiomegaly Unassociated with Coronary, Valvular, Congenital or Specific Myocardial Disease.

Amy H. Kragel and William C. Roberts

660

Percutaneous Double Balloon Valvotomy for Rheumatic Tricuspid Stenosis.

Paulo A. Ribeiro, Muayed Al Zaibag, Saad Al Kasab, Mohamed Idris, Murtada Halim, Moheeb Abdullah, and Maie Shahed

662

Clinical Features of Mitral Valve Prolapse Associated with Low Body Weight.

Richard B. Devereux, Roger Cappucci, and Randi Kramer-Fox

664

Echocardiographic Evaluation of Obstructive Mechanism of Tetralogy of Fallot with Restrictive Ventricular Septal Defect.

Norman N. Musewe, Jeffrey F. Smallhorn, C.A.F. Moes, Robert M. Freedom, and George A. Trusler

668

Noninvasive Measurement of Right Ventricular Systolic Pressure by Combined Color-Coded and Continuous-Wave Doppler Ultrasound.

Hans P.M. Hamer, Bert L. Takens, Jan L. Posma, and Kong I. Lie

671

THE AJC 25 YEARS AGO.

William C. Roberts

672

FROM THE EDITOR.

675

LETTERS.

INSTRUCTIONS TO AUTHORS

on page 676

MARCH 25, 1988

VOLUME 61 • NUMBER 9

**A SYMPOSIUM:
ADVANCES IN
CLINICAL PRACTICE OF
NITRATE THERAPY**

APRIL 1, 1988

VOLUME 61 • NUMBER 10

CORONARY ARTERY DISEASE

677

Determinants and Protective Potential of Coronary Arterial Collaterals as Assessed by an Angioplasty Model.

K. Peter Rentrop, John C. Thornton, Frederick Feit, and Mark Van Buskirk

685

Usefulness of Serial Radionuclide Monitoring During Graded Nitroglycerin Infusion for Unstable Angina Pectoris for Determining Left Ventricular Function and Individualized Therapeutic Dose.

Warren M. Breisblatt, Nestor A. Vita, Marcos Armuchastegui, Lawrence S. Cohen, and Barry L. Zaret

691

Acute Effects of Felodipine in Exertional Angina Pectoris.

Sabino Scardi, Claudio Pandullo, Fulvio Pivotti, Giuliano Ceschia, and Giorgio Pollavini

697

Correlation of Minimum Coronary Lumen Diameter with Left Ventricular Functional Impairment Induced by Atrial Pacing.

Jonathan Tobis, David Sato, Orhan Nalcioğlu, Warren D. Johnston, John Mallery, Jackie See, Lian Qu, Tim Reese, Jim Paynter, Steve Montelli, and Walter L. Henry

704

Recruitment and Baseline Description of Patients in the Cardiac Arrhythmia Pilot Study. The Cardiac Arrhythmia Pilot Study (CAPS) Investigators

714

Prevalence and Significance of Atrial Fibrillation in Coronary Artery Disease (CASS Registry).

Airlie Cameron, Miles J. Schwartz, Richard A. Kronmal, and Andrzej S. Kosinski

718

Helicopter Transport of Patients During Acute Myocardial Infarction.

Raye L. Bellinger, Robert M. Califf, Daniel B. Mark, Rita A. Weber, Patricia Collins, Janice Stone, Harry R. Phillips, III, Lawrence German, and Richard S. Stack

723

Comparison of Two Dose Regimens of Intravenous Tissue Plasminogen Activator for Acute Myocardial Infarction.

Eric J. Topol, Barry S. George, Dean J. Kereiakes, Richard J. Candela, Charles W. Abbottsmith, David C. Stump, Jane Boswick, Richard S. Stack, Robert M. Califf, and the TAMI Study Group

729

Evaluation of a QRS Scoring System for Estimating Myocardial Infarct Size. VI: Identification of Screening Criteria for Non-Acute Myocardial Infarcts.

William D. Anderson, Nancy B. Wagner, Kerry L. Lee, Richard D. White, James Yuschak, Victor S. Behar, Ronald H. Selvester, Raymond E. Ideker, and Galen S. Wagner

734

Development and Validation of an Automated Method of the Selvester QRS Scoring System for Myocardial Infarct Size.

James E. Pope, Nancy B. Wagner, David Dubow, John H. Edmonds, Galen S. Wagner, and W. Kenneth Haisty, Jr.

739

Significance of Q-Wave Regression After Transmural Acute Myocardial Infarction.
Santiago Coll, Amadeo Betriu, Tomás de Flores, Eulalia Roig, Ginés Sanz, Luis Mont, Jorge Magriñá, Antonio Serra, and Francisco Navarro-López

743

Limitations in the Interpretation of Rest-Exercise Ejection Fraction Changes After Early Thrombolytic Therapy During Acute Myocardial Infarction.
Florence H. Sheehan, Detlef G. Mathey, Joachim Schofer, Suzanne Mitten, and Edward L. Bolson

749

Use of Initial ST-Segment Deviation for Prediction of Final Electrocardiographic Size of Acute Myocardial Infarcts.
Harry R. Aldrich, Nancy B. Wagner, Jane Boswick, Anne T. Corsa, Michael G. Jones, Peer Grande, Kerry L. Lee, and Galen S. Wagner

754

Usefulness of Lactate Dehydrogenase and Lactate Dehydrogenase Isoenzymes for Diagnosis of Acute Myocardial Infarction.
Gregg J. Reis, Harvey W. Kaufman, Gary L. Horowitz, and Richard C. Pasternak

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

759

Direct and Autonomically Mediated Effects of Oral Flecaïnide.
Paolo Alboni, Nelly Paparella, Riccardo Cappato, and Gian Carlo Candini

764

Noninvasive Evaluation of Indecainide for Serious Ventricular Tachyarrhythmia.
Philip J. Podrid, Stephan Hohnloser, and Bernard Lown

770

Coupling Intervals of Ventricular Extrastimuli Causing Resetting of Sustained Ventricular Tachycardia Secondary to Coronary Artery Disease: Relation to Subsequent Termination.
Mark E. Rosenthal, Nicholas J. Stamato, Jesus M. Almendral, Charles D. Gottlieb, and Mark E. Josephson

775

Validation of Double-Spike Electrograms as Markers of Conduction Delay or Block in Atrial Flutter.
Francisco G. Cosio, Fernando Arribas, José María Barbero, Carlos Kallmeyer, and Antonio Goicolea

781

Characteristics of Entrainment During Autodecremental Atrial and Ventricular Stimulation.
Agustin Castellanos, Liaqat Zaman, Pedro Fernandez, Bolivar Portillo, Barouh V. Berkovits, and Robert J. Myerburg

787

Sensitivity for Ventricular Tachyarrhythmias of an Automatic External Defibrillator in Patients Undergoing Electrophysiologic Studies.
Mark D. Carlson, Charles S. Freeman, Hasan Garan, and Jeremy N. Ruskin

791

Determinants of Survival in Patients with Malignant Ventricular Arrhythmia Associated with Coronary Artery Disease.
Steven Lampert, Bernard Lown, Thomas B. Graboys, Philip J. Podrid, and Charles M. Blatt

SYSTEMIC HYPERTENSION

798

Effect of Behavior State on Caffeine's Ability to Alter Blood Pressure.
Gwendolyn A. Pincomb, William R. Lovallo, Richard B. Passey, and Michael F. Wilson

803

Lisinopril Versus Lisinopril plus Hydrochlorothiazide in Essential Hypertension.
Jawahar Mehta, Larry M. Lopez, and Alfred D. Thorman

807

Comparison of the Antihypertensive Effects of Betaxolol to Atenolol.
William J. Mroczek, James F. Burris, Leo B. Hogan, Daniel C. Citron, Allan H. Barker, and Robert H. McDonald

VALVULAR HEART DISEASE

812

Comparative Study of Primary Tissue Failure Between Porcine (Hancock and Carpentier-Edwards) and Bovine Pericardial (Jonescu-Shiley) Bioprostheses in the Aortic Valve Position at Five-to Nine-Year Follow-Up.
Ignacio Gallo, Francisco Nistal, Emilio Arbe, and Edurne Artiñano

817

Noninvasive Assessment of Mitral Stenosis Before and After Percutaneous Balloon Mitral Valvuloplasty.
Patricia C. Come, Marilyn F. Riley, Daniel J. Diver, James P. Morgan, Robert D. Safian, and Raymond G. McKay

826

Angina Pectoris and Coronary Artery Disease in Severe Aortic Regurgitation.
Philippe Timmermans, Jos L. Willems, Jan Piessens, and Hilaire De Geest

CARDIOMYOPATHY

830

Relation Between Serum Nifedipine Concentration and Hemodynamic Effects in Nonobstructive Hypertrophic Cardiomyopathy.

Sandro Betocchi, Robert O. Bonow, Richard O. Cannon, III, Lawrence J. Lesko, Harold G. Ostrow, Rita M. Watson, and Douglas R. Rosing

836

A Comparative Study of Thallium-201 Single-Photon Emission Computed Tomography and Electrocardiography in Duchenne and Other Types of Muscular Dystrophy.

Shuhei Yamamoto, Hideo Matsushima, Akio Suzuki, Iwao Sotobata, Toshikatsu Indo, and Yukihiro Matsuoka

CONGENITAL HEART DISEASE

844

Doppler Ultrasound Evaluation of Valvar Pulmonary Stenosis from Multiple Transducer Positions in Children Requiring Pulmonary Valvuloplasty.

Elman G. Frantz and Norman H. Silverman

850

Anomalous Origin of a Pulmonary Artery from the Ascending Aorta: Associated Anomalies and Pathogenesis.

Lynn M. Kutsche and L.H.S. Van Mierop

857

An Echocardiographic Study of the Association of Ventricular Septal Defect and Right Ventricular Muscle Bundles with a Fixed Subaortic Abnormality.

Michael Vogel, Jeffrey F. Smallhorn, Robert M. Freedom, John Coles, William G. Williams, and George A. Trusler

861

Cardiorespiratory Exercise Testing After Venous Switch Operation in Children with Complete Transposition of the Great Arteries.

Tony Reybrouck, Monique Dumoulin, and Lucas G. Van der Hauwaert

EDITORIALS

866

Influence of Stenosis Severity on Coronary Collateral Development and Importance of Collaterals in Maintaining Left Ventricular Function During Acute Coronary Occlusion.

Stephen E. Epstein

869

Left Axis Deviation and Left Anterior Fascicular Block.

David H. Spodick

871

FROM THE EDITOR.

872

CORRECTIONS.

872

LETTERS.

INSTRUCTIONS TO AUTHORS.

on page 696

APRIL 15, 1988

VOLUME 61 • NUMBER 11

MISCELLANEOUS TOPICS

875

Left Ventricular Dysfunction After Prolonged Strenuous Exercise in Healthy Subjects.

Douglas R. Seals, Marc A. Rogers, James M. Hagberg, Chikashi Yamamoto, Philip E. Cryer, and Ali A. Ehsani

880

The 24-Hour Heart Rate Behavior in Long-Term Survivors of Cardiac Transplantation.

Dimitrios Alexopoulos, Salim Yusuf, Jim A. Johnston, Julian Bostock, Peter Sleight and Magdi H. Yacoub

METHODS

885

Optimal Lead Subsets for Reconstruction of QRS and ST-T in 35-Lead Precordial Maps.

Christopher D. McManus, Alan S. Berson, Jorge C. Rios, Emigdio A. Lopez, and Hubert V. Pipberger

891

Limits of Reproducibility of Mitral Pulsed Doppler Spectra.

Jules Fast, Ina Van Dam, Anco Heringa, Theo De Boo, Jos Alsters, Jeroen Hopman, Otto Daniels, and Lambert Van Den Merkhof

HISTORICAL STUDIES

895

From Irritable Heart to Mitral Valve Prolapse: World War I—The U.S. Experience and the Prevalence of Apical Systolic Murmurs and Mitral Regurgitation in Drafted Men Compared with Present Day Mitral Valve Prolapse Studies.

Charles F. Wooley and Harisios Boudoulas

900

Lewis A. Conner, MD (1867-1950), and Lessons Learned from Examining Four Million Young Men in World War I.

Charles F. Wooley

BRIEF REPORTS

904

Low Dose Aspirin After Early Thrombolysis in Anterior Wall Acute Myocardial Infarction.
Freek W.A. Verheugt, Albert J. Funke Küpper, Tjebbe W. Galema, and Jan P. Roos

906

Treatment of Recurrent Restenosis with Repeat Percutaneous Transluminal Coronary Angioplasty.
Patrick Joly, Raoul Bonan, Donald Palisaitis, Angel Cequier, Jacques Crépeau, Gilles Coté, Pierre De Guise, and David D. Waters

908

Effect of Nifedipine on Out-of-Hospital Silent Myocardial Ischemia in Asymptomatic Men with Coronary Artery Disease.
Peter F. Cohn and William E. Lawson, with the technical assistance of Virginia Gennaro and Dorothy Brady

910

Relation of Left Ventricular Free Wall Rupture in Acute Myocardial Infarction to Forced Immobilization.
Christian Torp-Pedersen, Frank Steensgaard Hansen, and Asger Pedersen

912

Assessment of Left Ventricular Volume Changes During Exercise Radionuclide Angiography in Coronary Artery Disease.
Pierce J. Vatterott, Raymond J. Gibbons, David C.K. Hu, Manuel L. Brown, and Ian P. Clements

914

Propafenone for Prevention of Recurrent Atrial Fibrillation.
Charles R. Kerr, George J. Klein, James E. Axelson, and Jocelyn C. Cooper

916

Ventriculoatrial Conduction and Atrial Activation During Ventricular Flutter and Fibrillation.
Guido Capella, Pedro Brugada, and Hein J.J. Wellens

919

Fatal and Nonfatal Cardiac Arrest in Patients with an Implanted Antitachycardia Device for the Treatment of Supraventricular Tachycardia.
Chu Pak Lau, Elizabeth Cornu, and A. John Camm

922

Analysis of Antiarrhythmic Drug Concentrations Determined During Electrophysiologic Drug Testing in Patients with Inducible Tachycardias.
Nada S. Berry, Jerry L. Bauman, Jose L. Gallastegui, Wayne Bauma, Karen J. Beckman, and Robert J. Hariman

925

Acute Termination of Supraventricular Tachyarrhythmias in Children by Transesophageal Atrial Pacing.
Macdonald Dick II, William A. Scott, Gerald S. Serwer, Burt I. Bromberg, Robert H. Beekman, Albert P. Rocchini, A. Rebecca Snider, Dennis C. Crowley, and Amnon Rosenthal

928

Color and Pulsed-Wave Doppler Study of Aortic Regurgitation in Systemic Hypertension.
Carlo Vigna, Aldo Russo, Mauro Pellegrino Salvatori, Francesco Laurenzi, Gianpiero Perna, Alessandro Villella, Tommaso Langialonga, Raffaele Fanelli, and Francesco Loperfido

930

Early Results of Balloon Angioplasty of Native Aortic Coarctation in Young Adults.
Ihab M. Attia and Zuhdi A. Lababidi

932

Effects of Repeated Increments in Right Atrial Pressure on Secretion of Atrial Natriuretic Factor.
Mathias C. Haufe, Jochen Weil, Rupert Gerzer, Johanna E. Ernst, and Karl Theisen

934

Lipoprotein Profiles of Elite Veteran Endurance Athletes.
Robin J. Northcote, Gordon C. Canning, Iain C. Todd, and David Ballantyne

936

Idioventricular Rates in Early and Late Phases of Acute Myocardial Infarction.
Jaok Han, Myung S. Yoon, and George H. Dersham

938

THE AJC 25 YEARS AGO.
William C. Roberts

CASE REPORTS

939

Coronary Artery Spasm, Cardiac Arrest, Transient Electrocardiographic Q Waves and Stunned Myocardium in Cocaine-Associated Acute Myocardial Infarction.
Elizabeth K. Ascher, Jean-Christophe E. Stauffer, and William H. Gaasch

941

Sudden Death in Hemochromatosis After Closed-Chest Catheter Ablation of the Atrioventricular Junction.

Robert Lemery, Pedro Brugada, Michael Havenith, Deborah Barbour, William C. Roberts, and Hein J.J. Wellens

943

Transient Entrainment of Pacemaker Circus Movement Tachycardia.

Ivo E. Kersschot, Pedro Brugada, Karel den Dulk, Willem R.M. Dassen, and Hein J.J. Wellens

946

Surgical Removal of the Intracoronary Portion of a Fractured Angioplasty Guidewire.

Lisa C. Bachenheimer, Curtis E. Green, Douglas R. Rosing, and Robert B. Wallace

947

Bioprostheses in Tricuspid and Mitral Valve Positions for 100 Months with Heavier Calcific Deposits on the Left-Sided Valve Followed by New Bioprostheses in Both Positions for 95 Months with Heavier Calcific Deposits on the Right-Sided Valve.

Benjamin N. Potkin, Charles L. McIntosh, Richard O. Cannon III, and William C. Roberts

949

Left Isomerism with Left-Sided Systemic Venous Return and Ventriculoarterial Concordance: Six-Year Follow-Up After a "Mirror Image" Mustard Operation.

Sylvain Chauvaud, Laurent Fermon, Danielle Bensasson, and Alain Carpentier

951

Aortic Aneurysms After Subclavian Angioplasty Repair of Coarctation of the Aorta.

Monica M. Martin, Robert H. Beekman, Albert P. Rocchini, Dennis C. Crowley, and Amnon Rosenthal

954

Reduction of Nitroglycerin and Isosorbide Dinitrate by Hemodialysis in Refractory Angina Pectoris After Acute Myocardial Infarction.

Takuroh Imamura, Kazuo Tamura, Toshifumi Taguchi, Masaru Minoda, and Masashi Seita

955

Reversal of ST Depression and Low Maximal Oxygen Uptake After Verapamil with Normal Coronary Arteries and Pulmonary Disease.

Ileana L. Pina, Elizabeth V. Smith, Mercedes Fuguet, Horst J. Baier, and Robert J. Myerburg

958

LETTERS.**INSTRUCTIONS TO AUTHORS**
on page 957**APRIL 21, 1988****VOLUME 61 • NUMBER 12****A SYMPOSIUM:
SILENT MYOCARDIAL
ISCHEMIA AND
INFARCTION—PAST,
PRESENT AND FUTURE****MAY 1, 1988****VOLUME 61 • NUMBER 13****CORONARY ARTERY DISEASE**

961

Relation of Coronary Arterial Patency and Left Ventricular Function to Electrocardiographic Changes After Streptokinase Treatment During Acute Myocardial Infarction.

S. Geoffrey Richardson, Patricia Morton, J. Gerard Murtagh, Michael E. Scott, and D. Barry O'Keefe

966

Recombinant Single-Chain Urokinase-Type Plasminogen Activator During Acute Myocardial Infarction.

Christoph Diefenbach, Raimund Erbel, Tiberius Pop, Detlef Mathey, Joachim Schofer, Christian Hamm, Helmut Ostermann, Ulrich Schmitz-Hübner, Walter Bleifeld, and Jürgen Meyer

971

Efficacy of Intravenous Prourokinase and a Combination of Prourokinase and Urokinase in Acute Myocardial Infarction.

Christoph Bode, Sabine Schoernermark, Gerhard Schuler, Rainer Zimmermann, Franz Schwarz, and Wolfgang Kuebler

975

Prognostic Significance of Ventricular Ectopic Activity in Survivors of Acute Myocardial Infarction Who Receive Propranolol.

John B. Kostis, Alan C. Wilson, Michael R. Sanders, and Robert P. Byington for the BHAT Study Group

979

Psychosocial and Physiological Predictors of Sudden Cardiac Death After Healing of Acute Myocardial Infarction.

Charles Brackett and Lynda H. Powell

984

Prognostic Significance of Angina Pectoris Before First Acute Myocardial Infarction.

Luc A. Pierard, Christophe DuBois, Jean-Pierre Smeets, Jean Boland, Jean Carlier, and Henri E. Kulbertus

989

Frequency of ST-Segment Depression Produced by Mental Stress in Stable Angina Pectoris from Coronary Artery Disease.

Joan Barry, Andrew P. Selwyn, Elizabeth G. Nabel, Michael B. Rocco, Kimberely Mead, Stephen Campbell, and George Rebecca

994

Results of Percutaneous Transluminal Coronary Angioplasty for Unstable Angina Pectoris in Patients 70 Years of Age and Older.

Geoffrey W. Holt, Declan D. Sugrue, John F. Bresnahan, Ronald E. Vlietstra, Dennis R. Bresnahan, Guy S. Reeder, and David R. Holmes, Jr.

998

Effect of Hospitalization on High Density Lipoprotein Cholesterol in Patients Undergoing Elective Coronary Angiography.

Jacques J. Genest, Helen M. Corbett, Judith R. McNamara, Mary M. Schaefer, Deeb N. Salem, and Ernst J. Schaefer

1001

Short-Term Effect of Coronary Artery Bypass Grafting on the Signal-Averaged Electrocardiogram.

Joseph Borbola, Cyrus Serry, Marshall Goldin, and Pablo Denes

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

1006

Electrophysiologic Effects of Intravenous and Oral Sotalol for Sustained Ventricular Tachycardia Secondary to Coronary Artery Disease.

Harry A. Kopelman, Raymond L. Woosley, John T. Lee, Dan M. Roden, and Debra S. Echt

1012

Enhanced Efficacy of Oral Sotalol for Sustained Ventricular Tachycardia Refractory to Type I Antiarrhythmic Drugs.

Michael G. Kienzle, James B. Martins, David J. Wendt, Luis Constantin, Rosanne Hopson, and Michael L. McCue

1018

Early Assessment of the Effect of Map-Guided Transcatheter Intracardiac Electric Shock on Sustained Ventricular Tachycardia Secondary to Coronary Artery Disease.

Hasan Garan, Dennis Kuchar, Charles Freeman, Dianne Finkelstein, and Jeremy N. Ruskin

1024

Prospective Evaluation of a Discriminant Function for Prediction of Recurrent Symptomatic Ventricular Tachycardia or Ventricular Fibrillation in Coronary Artery Disease Patients Receiving Amiodarone and Having Inducible Ventricular Tachycardia at Electrophysiologic Study.

Lawrence S. Klein, Naomi Fineberg, James J. Heger, William M. Miles, James Kammerling, Mau-Song Chang, Douglas P. Zipes, and Eric N. Prystowsky

1031

Effects of Beta-Adrenergic Stimulation on Atrial Latency and Atrial Vulnerability in Patients with Paroxysmal Supraventricular Tachycardia.

Ngai X. Nguyen, Po-Ta Yang, Edward C. Huycke, Edmund C. Keung, Prakash Deedwania, and Ruey J. Sung

1037

Usefulness of Isoproterenol in Facilitating Atrioventricular Nodal Reentry Tachycardia During Electrophysiologic Testing.

Sheldon L. Brownstein, Rosanne C. Hopson, James B. Martins, Ann M. Aschoff, Brian Olshansky, Luis Constantin, and Michael G. Kienzle

1042

Use Dependence of Amiodarone During the Sinus Tachycardia of Exercise in Coronary Artery Disease.

Wayne E. Cascio, Alan Woelfel, Stephen B. Knisley, Jack W. Buchanan Jr., James R. Foster, and Leonard S. Gettes

1046

Facilitating Influence of Disopyramide on Atrial Flutter Termination by Overdrive Pacing.

Paolo Della Bella, Claudio Tondo, Giancarlo Marenzi, Carlo M. Cipolla, Flavio Doni, Sergio Grazi, Andrea Rimondini, Alessandro Salvioni, and Maurizio D. Guazzi

1050

Relation of Acute Antiarrhythmic Drug Efficacy to Left Ventricular Function in Coronary Artery Disease.

Marc D. Meissner, Harold R. Kay, Leonard N. Horowitz, Scott R. Spielman, Allan M. Greenspan, and Steven P. Kutalek

SYSTEMIC HYPERTENSION

1056
Unrelated Responses of Brachial Artery Hemodynamics and Renin-Angiotensin System to Acute Converting Enzyme Inhibition by Enalaprilat in Essential Hypertension.
 Jaime Levenson, Nguyen Phong Chau, Eliane Billaud, and Alain Simon

1061
The Pulmonary Circulation in Essential Systemic Hypertension
 Robert Fagard, Paul Lijnen, Jan Staessen, Johan Verschueren, and Antoon Amery

1066
Arterial Distensibility and Ambulatory Blood Pressure Monitoring in Essential Hypertension.
 Roland G. Asmar, Patrick C. Brunel, Bruno M. Pannier, Patrick J. Lacolley, and Michel E. Safar

1071
Correlates of Systolic and Diastolic Blood Pressure in Men 40 to 59 Years of Age Sampled from United States of America and Union of Soviet Socialist Republics Lipid Research Clinics Populations.
 James R. Abernathy, Michael D. Thorn, Lars-Goran Ekelund, Ingar Holme, Sandra S. Stinnett, D. B. Shestov, and A. D. Deev, for the USA-USSR Steering Committee for Cardiovascular Area I: Pathogenesis of Atherosclerosis

CONGESTIVE HEART FAILURE

1076
Delayed Reversal of Impaired Vasodilation in Congestive Heart Failure After Heart Transplantation.
 Lawrence I. Sinoway, John R. Minotti, Dwight Davis, John L. Pennock, Joanne E. Burg, Timothy I. Musch, and Robert Zelis

VALVULAR HEART DISEASE

1080
Changes in Coronary Blood Flow and Myocardial Metabolism During Aortic Balloon Valvuloplasty.
 Michel F. Rousseau, William Wynn, Frank Hammer, Danielle Caucheteux, Louis Hue, and Hubert Pouleur

1085
Determinants of Anterior Mitral Leaflet Fluttering in Pure Aortic Regurgitation from a Pulsed Doppler Study of the Early Diastolic Interaction Between the Regurgitant Jet and Mitral Inflow.
 Eric K. Louie, Terry J. Mason, Rupa Shah, Teresa Bieniarz, and Anna Marie Moore

MISCELLANEOUS

1092
Doppler Assessment of Changes in Right-Sided Cardiac Hemodynamics After Pulmonary Thromboendarterectomy.
 Leon C. Chow, Howard C. Dittrich, Brian D. Hoyt, Kenneth M. Moser, and Pascal H. Nicod

METHODS

1098
Electrocardiographic Detection of Left Ventricular Hypertrophy in the Presence of Left Anterior Fascicular Block.
 Marc Gertsch, Armin Theler, and Ezio Foglia

CARDIOVASCULAR PHARMACOLOGY

1102
Acute Hemodynamic Effects of Intravenous Isradipine.
 Egerton K. van den Berg and Gregory J. Dehmer

EDITORIALS

1106
The Calamity of Cardioversion of Conscious Patients.
 Peter R. Kowey

1108
Arrhythmogenesis of Antiarrhythmic Drugs.
 Pedro Brugada and Hein J.J. Wellens

1112
Cardiology by the Numbers and Cost-Containment.
 Suzanne B. Knoebel

BRIEF REPORTS

1116

Atherogenic Effects of Beta Blockers on Cells Cultured from Normal and Atherosclerotic Aorta.

Alexander N. Orekhov, Michael Ya. Ruda, Gregory N. Baldenkov, Vladimir V. Tertov, Khairulla A. Khashimov, Li Hwa Ryong, Anatoly A. Lyakishev, Sergey G. Kozlov, Vsevolod A. Tkachuk, and Vladimir N. Smirnov

1117

Heart Rate Response to Intracoronary Contrast Media Injection Before and After Percutaneous Transluminal Coronary Angioplasty.

Oscar H. Kracoff and Allan G. Adelman

1119

Isolated Left Main Coronary Artery Stenosis and Mediastinal Radiotherapy as an Etiologic Factor.

Carl L. Tommaso, Mark M. Applefeld, and Robert T. Singleton

1120

Comparison of Outcome of Resuscitation of Out-of-Hospital Cardiac Arrest in Persons Younger and Older Than 70 Years of Age.

Donald D. Tresch, Ranjan Thakur, Raymond G. Hoffmann, and Harold L. Brooks

1123

Short- and Long-Term Reproducibility of the Signal-Averaged Electrocardiogram in Coronary Artery Disease.

Joseph Borbola and Pablo Denes

1124

Use of the Esophageal Pill Electrode for Pacing Inhibition of Bipolar VVI Pacemakers.

Shoei K. Stephen Huang and Ion D. Bazgan

1127

Atrial Automatic Tachycardia in Children.

Kazuyuki Koike, Peter S. Hesslein, Cameron D. Finlay, William G. Williams, Teruo Izukawa, and Robert M. Freedom

1130

Usefulness of Echocardiographic Left Ventricular Hypertrophy in Predicting New Coronary Events and Atherothrombotic Brain Infarction in Patients Over 62 Years of Age.

Wilbert S. Aronow, Mordecai Koenigsberg, and Kenneth S. Schwartz

1132

Impaired Beta-Adrenergic Receptor and Normal Postreceptor Responsiveness in Congestive Heart Failure.

Paul Erne, David Lipkin, and Attilio Maseri

1135

Importance of Atrial Contraction to Left Ventricular Filling in Mitral Stenosis.

Ted M. Parris, Gary S. Mintz, John Ross, and Ioannis P. Panidis

1137

Basement Membrane Thickening in Cardiac Myocytes and Capillaries in Chronic Chagas' Disease.

Victor J. Ferrans, Jose Milei, Yoshifumi Tomita, and Ruben A. Storino

1140

Left Ventricular Filling Determined by Doppler Echocardiography in Diabetes Mellitus.

Katsu Takenaka, Tsuguya Sakamoto, Keiko Amano, Junji Oku, Kenji Fujinami, Tohru Murakami, Iku Toda, Kiyoshi Kawakubo, and Tsuneaki Sugimoto

1144

Echocardiographic Findings in Systemic Lupus Erythematosus.

Neil E. Doherty, III, Gary Feldman, Gerald Maurer, and Robert J. Siegel

1145

Correlates of Supranormal (Ejection Fraction $\geq 85\%$) Left Ventricular Performance.

Joel K. Kahn

1146

Jogging in Place: A Valid Alternative to Multistage Exercise Testing.

Nicolaos M. Papazoglou, Eleni S. Kolokouri-Dervou, Panagiotis A. Viaros, Sotirios V. Vassiliou, and Georgios A. Korkodilos

1148

Does Elective Diastolic Coronary Venous Retroperfusion Depend on Arterial-Like Blood Pressure in the Coronary Sinus?

Pieter D. Verdouw, Kevin Beatt, Luuk Berk, and Patrick W. Serruys

1149

THE AJC 25 YEARS AGO.

William C. Roberts

CASE REPORTS

1150

Aneurysmal Coronary Artery Disease in Cerebrotendinous Xanthomatosis.

Benjamin N. Potkin, Jeffrey M. Hoeg, William E. Connor, Gerald Salen, Arshed A. Quyyumi, John E. Brush, Jr., William C. Roberts and H. Bryan Brewer, Jr.

1152

Reentry and Cyclic AMP-Mediated Triggered Activity: Dual Mechanisms of Ventricular Tachycardia in Healed Myocardial Infarction.
Bernard Belhassen, Michal Chalwani, and Shlomo Laniado

1154

Bigeminy During Atrial Fibrillation.

Paul Touboul, Gilbert Kirkorian, and Georges Atallah

1156

Coronary Ostial Stenosis After Aortic Valve Replacement Without Coronary Cannulation.
Shmuel Rath, Daniel A. Goor, Yedael Har-Zahav, and Zvi Ziskind

1158

"Woven" Right Coronary Artery: A Previously Undescribed Congenital Anomaly.
David C. Sane and Humberto J. Vidaillet, Jr.

1158

The Sign of the Flashing Wheal in Aortic Regurgitation.
William J. Penny

1159

Isolated Descending Thoracic Aortic Aneurysm in Marfan's Syndrome.
Mary Susan Pruzinsky, Nevin M. Katz, Curtis E. Green, and Lowell F. Satler

1161

FROM THE EDITOR

INSTRUCTIONS TO AUTHORS
on page 988

MAY 9, 1988**VOLUME 61 • NUMBER 14**

**A SYMPOSIUM:
INTERVENTIONAL
CARDIOLOGY—1987**

JUNE 1, 1988**VOLUME 61 • NUMBER 15****CORONARY ARTERY DISEASE**

1165

Influence on Prognosis and Morbidity of Left Ventricular Ejection Fraction With and Without Signs of Left Ventricular Failure After Acute Myocardial Infarction.

Pascal Nicod, Elizabeth Gilpin, Howard Dittrich, Francois Chappuis, Staffan Ahnve, Robert Engler, Hartmut Henning, and John Ross, Jr.

1172

Effect of Diltiazem on Myocardial Infarct Size Estimated by Enzyme Release, Serial Thallium-201 Single-Photon Emission Computed Tomography and Radionuclide Angiography.

Faiez Zannad, Max Amor, Gilles Karcher, Philippe Maurin, Gerard Etchevenot, Claude Sebag, Alain Bertrand, Claude Pernot, and Jean-Marie Gilgenkrantz

1178

Prognostic Significance of an Early Rise to Peak Creatine Kinase After Acute Myocardial Infarction.

Stefan Mark Nidorf, Peter Lindsay Thompson, Nic Hubert de Klerk, Yvonne Vandongen, and Vi Katavatis

1181

Significance of Technetium-99m/Thallium-201 Overlap on Simultaneous Dual Emission Computed Tomography in Acute Myocardial Infarction.

Tetsuo Hashimoto, Hirofumi Kambara, Tetsuro Fudo, Shunichi Tamaki, Yoshiki Takatsu, Ryuichi Hattori, Shingo Tokunaga, and Chuichi Kawai, with the technical assistance of Kenji Uozu

1187

Natural History of Late Potentials in the First Ten Days After Acute Myocardial Infarction and Relation to Early Ventricular Arrhythmias.

Mark McGuire, Dennis Kuchar, James Ganis, Neville Sammel, and Charles Thorburn

1191

F-18 Deoxyglucose and Stress N-13 Ammonia Positron Emission Tomography in Anterior Wall Healed Myocardial Infarction.

Tetsuro Fudo, Hirofumi Kambara, Tetsuo Hashimoto, Masataka Hayashi, Ryuji Nohara, Nagara Tamaki, Yoshiharu Yonekura, Michio Senda, Junji Konishi, and Chuichi Kawai

1198

Comparison of Effects of Medical and Surgical Therapy on Survival in Severe Angina Pectoris and Two-Vessel Coronary Artery Disease With and Without Left Ventricular Dysfunction: A Coronary Artery Surgery Study Registry Study.
Michael B. Mock, Lloyd D. Fisher, David R. Holmes, Jr., Bernard J. Gersh, Hartzell V. Schaff, Mary McConney, William J. Rogers, George C. Kaiser, Thomas J. Ryan, William O. Myers, Thomas Killip III, and Participants in the Coronary Artery Surgery Study*

1204

Comparison of Bevantolol and Atenolol in Chronic Stable Angina.
Erwin A. Rodrigues, John D. Lawrence, Prabir Dasgupta, Angus D.B. Hains, Avijit Lahiri, Peter K. Wilkinson, and Edward B. Raftery

1210

Long-Term Bepridil Monotherapy for Angina Pectoris.
Mukesh K. Sharma, Wyatt Voyles, Rajesh Prasad, Stephen M. Teague, and Udho Thadani

1214

Functional Characteristics of Nonischemic Region During Pacing-Induced Myocardial Ischemia in Angina Pectoris.
Kazuto Yamanishi, Masatoshi Fujita, Shigetake Sasayama, Hisayoshi Nakajima, Hidetsugu Asanoi, and Akira Ohno

1219

Transient Myocardial Ischemia After Abrupt Withdrawal of Antianginal Therapy in Chronic Stable Angina.
Kenneth Egstrup

1223

Characteristics of Silent and Symptomatic Myocardial Ischemia During Daily Activities.
Shlomo Stern, Alex Gavish, Giora Weisz, Jesaia Penhorin, Andre Keren, and Dan Tzivoni

1229

Results of Percutaneous Transluminal Coronary Angioplasty by Multiple, Relatively Low Frequency Operators: 1986-1987 Experience.
Nidal Hamad, Augusto D. Pichard, Henry R.P. Lyle, and Joseph Lindsay, Jr.

1232

Stability of Multilead ST-Segment "Fingerprints" Over Time After Percutaneous Transluminal Coronary Angioplasty and Its Usefulness in Detecting Reocclusions.
Mitchell W. Krucoff, Antonio R. Parente, Randy K. Bottner, Randolph H. Renzi, Karen S. Stark, Richard A. Shugoll, Susan W. Ahmed, Joseph DeMichele, Scott L. Stroming, Curtis E. Green, Charles E. Rackley, and Kenneth M. Kent

1238

Results of Percutaneous Transluminal Coronary Angioplasty for Angina Pectoris Early After Acute Myocardial Infarction.
Geoffrey W. Holt, Bernard J. Gersh, David R. Holmes, Jr., Ronald E. Vlietstra, John F. Bresnahan, Guy S. Reeder, and Hugh C. Smith

1243

Percutaneous Transluminal Coronary Angioplasty in Patients With Two or More Previous Coronary Artery Bypass Grafting Operations.
Gerald Dorros, Ruben F. Lewin, Lynne M. Mathiak, W. Dudley Johnson, Jerold Brenowitz, Terence Schmahel, and Alfred Tector

1248

The Effect of Coronary Artery Bypass Grafting on Left Ventricular Systolic Function at Rest: Evidence for Preoperative Subclinical Myocardial Ischemia.
Vasken Dilsizian, Robert O. Bonow, Richard O. Cannon, III, Cynthia M. Tracy, Dino F. Vitale, Charles L. McIntosh, Richard E. Clark, Stephen L. Bacharach, and Michael V. Green

1255

Clinical and Angiographic Correlates and Prognostic Significance of the Coronary Extent Score.
Alain Moise, Bernard Clement, and Jacques Saltiel

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

1260

Atrial Natriuretic Peptide During Supraventricular Tachycardia and Relation to Hemodynamic Changes and Renal Function.
Rong-Chi Tsai, Tohru Yamaji, Miyuki Ishibashi, Fumimaro Takaku, Siu-Cheong Pang, San-Jou Yeh, Ying-Shiung Lee, Jui-Sung Hung, and Delon Wu

1265

Effect of Conduction Defects on the Signal-Averaged Electrocardiographic Determination of Late Potentials.
Thomas A. Buckingham, Christopher M. Thessen, Linda L. Stevens, Robert M. Redd, and Harold L. Kennedy

1272

Value of the Signal-Averaged Electrocardiogram as a Predictor of the Results of Programmed Stimulation in Nonsustained Ventricular Tachycardia.
Gioia Turitto, John M. Fontaine, Shantha N. Ursell, Edward B. Caref, Raphael Henkin, and Nabil El-Sherif

1279

Electrocardiographic Criteria for Ventricular Tachycardia in Wide Complex Left Bundle Branch Block Morphology Tachycardias.
K. Elizabeth Kindwall, Joan Brown, and Mark E. Josephson

1284

Immediate Quantitation of Antiarrhythmic Drug Effect by Monophasic Action Potential Recording in Coronary Artery Disease.
Edward V. Platia, Myron L. Weisfeldt, and Michael R. Franz

SYSTEMIC HYPERTENSION

1288

Comparison of Blood Pressure Responsiveness to Exogenous Epinephrine in Hypertensive Men and Women.
Jacques W.M. Lenders, Theo de Boo, Wim A.J. Lemmens, Joeke Reijenga, Jacques J. Willemsen, and Theo Thien

CONGESTIVE HEART FAILURE

1292

Assessment of Autonomic Regulation in Chronic Congestive Heart Failure by Heart Rate Spectral Analysis.
J. Philip Saul, Yutaka Arai, Ronald D. Berger, Leonard S. Lilly, Wilson S. Colucci, and Richard J. Cohen

VALVULAR HEART DISEASE

1300

Usefulness of Noninvasive Assessment of Aortic Stenosis Before and After Percutaneous Aortic Valvuloplasty.
Patricia C. Come, Marilyn F. Riley, Robert D. Safian, James F. Ferguson, Daniel D. Diver, and Raymond G. McKay

1307

Provocation and Amplification of the Transvalvular Pressure Gradient in Rheumatic Tricuspid Stenosis.
Paulo A. Ribeiro, Muayed al Zaibag, Saad al Kasab, Martyn Hinchcliffe, Murtada Halim, Mohamed Idris, and Moheeb Abdullah

CARDIOMYOPATHY

1312

Relation of Left Ventricular Function and Na,K-Pump Concentration in Suspected Idiopathic Dilated Cardiomyopathy.
Aage Nørgaard, Jens P. Bagger, Preben Bjerregaard, Ulrik Baandrup, Keld Kjeldsen, and Poul E.B. Thomsen

CONGENITAL HEART DISEASE

1316

Comparison of Magnetic Resonance Imaging with Echocardiography and Radionuclide Angiography in Assessing Cardiac Function and Anatomy Following Mustard's Operation for Transposition of the Great Arteries.
Simon Rees, Jane Somerville, Carole Warnes, Richard Underwood, David Firmin, Richard Klipstein, and Donald Longmore

MISCELLANEOUS

1323

Effects of Current Therapy of Kawasaki Disease on Eicosanoid Metabolism.
David R. Fulton, H. Cody Meissner, and Myron B. Peterson

1328

Hemodynamic Profiles at Rest and During Supine Exercise After Orthotopic Cardiac Transplantation.
Peter W. Pflugfelder, F. Neil McKenzie, and William J. Kostuk

1334

Contrast Media-Related Complications During Cardiac Catheterization Using Hexabrix™ or Renografin™ in High-Risk Patients.
Robert L. Feldman, Deborah A. Jalowiec, James A. Hill, and Charles R. Lambert

EDITORIALS

1338

"Microvascular Angina" as a Cause of Chest Pain with Angiographically Normal Coronary Arteries.
Richard O. Cannon III and Stephen E. Epstein

1344

Dissimilar Systemic and Local Adverse Effects of Thrombolytic Therapy.
Sol Sherry

BRIEF REPORTS

1347

Left Ventricular Performance Determined by Ambulatory Monitoring of Systolic Time Intervals During Daily Activities in the Late Hospital Phase of Acute Myocardial Infarction.
Masahide Matsutani, Tetsuro Sugiura, Nobuyuki Takahashi, Tadashi Hasegawa, Yasuo Takayama, Toshiji Iwasaka, and Mitsuo Inada

1349

Usefulness of Echocardiographic Abnormal Left Ventricular Ejection Fraction, Paroxysmal Ventricular Tachycardia and Complex Ventricular Arrhythmias in Predicting New Coronary Events in Patients Over 62 Years of Age.

Wilbert S. Aronow, Stanley Epstein, Mordecai Koenigsberg, and Kenneth S. Schwartz

1352

Antisclerotic Effects of a Newly Developed Capsule Containing 120 mg Isosorbide Dinitrate in Sustained Release Form.
Sigmund Silber, Astrid C. Vogler, Franz Spiegelsberger, Margot Vogel, and Karl Theisen

1354

Doppler Echocardiographic Assessment of Atrial Filling Fraction in Severe Mitral Stenosis.

Warwick M. Jaffe and Antony H.G. Roche

1355

Cardiac Tumors Associated with Hereditary Syndromes.
Humberto J. Vidaillet, Jr.

1356

Effects of Spontaneous Respiration on Diastolic Left Ventricular Filling Assessed by Pulsed Doppler Echocardiography.

Ali Dabestani, Katsu Takenaka, Byron Allen, Julius M. Gardin, Stuart Fischer, Daniel Russell, and Walter L. Henry

1359

Associations of HLA-A, B, DR Antigens with Primary Disease in Cardiac Allograft Recipients.

Tony R. Zerbe, Christina Kaufmann, Yolonda Colson, and Rene Duquesnoy

1361

Atrial Natriuretic Peptide in Acute Coxsackievirus Murine Myocarditis.

Shereif Rezkalla, Robert A. Kloner, James Sowers, and Riad Khatib

1362

THE AJC 25 YEARS AGO.

William C. Roberts

CASE REPORTS

1363

Angiographic Demonstration of Spasm in a Left Internal Mammary Artery Used as a Bypass to the Left Anterior Descending Coronary Artery.
Barbara Kong, Harry Kopelman, Bernard L. Segal, and Abdulmassih S. Iskandrian

1364

Morte d'Amour with Subsequent Electrophysiologic Studies.
Stephen C. Vlay

1365

FROM THE EDITOR.

INSTRUCTIONS TO AUTHORS

on page 1367

VOLUME INDEXES

on page 1368

JUNE 15, 1988

VOLUME 61 • NUMBER 16

**A SYMPOSIUM:
THE SALT-SENSITIVE
HYPERTENSIVE
PATIENT**

